

FOREST INSECT AND DISEASE MANAGEMENT
U.S. FOREST SERVICE
DORAVILLE, GEORGIA

LAND OWNERSHIP OR SURVEY AREA: Chickamauga and Chattanooga
National Military Park

STATE: Georgia and Tennessee

AREA WITHIN SURVEY BOUNDARY: 7,976 acres

DATE SURVEYED: 6/30/77

PERCENT COVERAGE: 100%

AIRCRAFT: Cessna 172

CREW: C. W. Dull
E. B. McClatchey
G. E. Moore

SURVEY OBJECTIVES: The purpose of this survey was to determine the location of pine bark beetle activity on the Chickamauga and Chattanooga National Military Park. The infestations detected during this survey will be considered as possible test sites for a study entitled "Southern Pine Beetle Attack: Emergence Ratio and Stand Factors for Predicting Spot Growth and Subsequent Population Trends."

SURVEY RESULTS

Red and fading pines suspected of containing active southern pine beetle brood were observed at 24 different locations. An estimated 100 red and fading trees were observed within these 24 spots. The largest spot contained approximately 15 trees and the average spot size was 4.4 trees. An estimated 50-75% of the pine type within the Park has succumbed to southern pine beetle attack resulting in large areas occupied by standing dead pine trees.

The location of infestations detected on the current survey and the previous survey are shown on the attached maps.

Conversely, the Park lands around Lookout Mountain were free of pine bark beetle activity.

CONCLUSIONS

A 20% reduction in the total number of active spots and a 95% reduction in the estimated total number of infested trees has occurred since the previous survey conducted on April 11, 1977.

This reduction in active spots with a greater reduction in average spot size indicates that southern pine beetle activity has sharply declined within the Chickamauga and Chattanooga National Military Park. However, an active southern pine beetle population still exists in the Park and poses a threat to the remaining pine type.

For any additional information, Contact
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